

**Abstract**

The invention relates to an optical inclinometer, in which radiation is emitted from a radiation source. After passing through a receptacle containing at least one first medium, said radiation is reproduced in a camera. Information concerning the inclination of the inclinometer can be gathered from the position of the first medium, in particular a liquid level, in relation to the inclinometer or the camera. The recording of the position of the first medium by a camera permits the evaluation of a plurality of characteristics, in particular the form, dimension and position of a boundary layer.